

# AUDIO PLAYER WITH LYRICS DISPLAY

## Abstract

An audio player includes a memory for storing an audio file and a text file, the text file containing texts of the corresponding audio file. The audio player contains a user interface for selecting the audio file, a controller for loading the audio file and the text file, and a decoder for converting the audio file into audio signals. The audio player also includes an audio output port for outputting the audio signals, a video output port for displaying texts stored in the text file on a display device electrically connected to the video output port, and a text calculating circuit for calculating a rate at which text is displayed on the display device according to a pre-determined relationship between a duration of the audio file and a size of the text file.